

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) An apparatus for performing a process for forming a coating on a substrate, including:

- a fluidising chamber for establishing a fluidised-bed of a powder coating composition, thereby effecting tribostatic charging of the powder coating composition,
- means for immersing the substrate wholly or partly in the fluidised bed, whereby tribostatically charged particles of the powder coating composition adhere to the substrate, the substrate being either electrically isolated or earthed,
- an electrically conductive electrode, to which a voltage is applied, positioned to influence the extent to which charged particles adhere to a region of the substrate,
- means for applying the voltage to the electrode,
- means for withdrawing the substrate from the fluidised-bed and
- means for forming the adherent particles into a continuous coating over at least part of the substrate,

the apparatus being arranged to operate without ionisation or corona effects in the fluidised bed.

2. (Original) An apparatus as claimed in claim 1, including a second electrode to which is applied a voltage that is of polarity opposite to the first-identified voltage, the first-identified electrode and the second electrode being on opposite sides of the substrate

and the second electrode being positioned to influence the extent to which charged particles adhere to a region of the substrate, and means for applying the voltage of the opposite polarity to the second electrode.

3. (Original) An apparatus as claimed in claim 1, including at least one further electrode adjacent to the first-identified electrode, the further electrode or electrodes being positioned to influence the extent to which charged particles adhere to a respective region of the substrate or respective regions of the substrate, and means for applying a voltage of the same polarity as the first-identified voltage to the further electrode or electrodes.
4. (Original) An apparatus as claimed in claim 3, including a plurality of further electrodes, wherein the further electrodes encompass the substrate.
5. (Currently Amended) An apparatus as claimed in ~~any one of claims 1 to 4~~claim 1, wherein the first-identified electrode is in the form of a rod.
6. (Currently Amended) An apparatus as claimed in ~~any one of claims 1 to 4~~claim 1, wherein the first-identified electrode is in the form of a plate.
7. (Currently Amended) An apparatus as claimed in claim 2 ~~or claim 3~~, wherein the electrodes are in the form of plates.
8. (Original) An apparatus as claimed in claim 4, wherein the first-identified electrode and the plurality of further electrodes are elements of a shell encompassing the substrate.
9. (Original) An apparatus as claimed in claim 1, wherein the electrode forms a shell for the substrate.
10. (Original) An apparatus as claimed in claim 9, wherein the shell includes sheet material.

11. (Currently Amended) An apparatus as claimed in ~~any one of claims 8 to 10~~claim 8, wherein at least part of the shell consists of an array of rods.
12. (Currently Amended) An apparatus as claimed in ~~any one of claims 8 to 11~~claim 8, wherein the shell is tubular in form.
13. (Currently Amended) An apparatus claimed in ~~any one of claims 8 to 11~~claim 8, wherein the shell is tubular in form and includes an end closure member at one end.
14. (Currently Amended) An apparatus as claimed in ~~any one of claims 8 to 11~~claim 8, wherein the shell is tubular in form and includes end closure members at both ends.
15. (Currently Amended) An apparatus as claimed in ~~any one of claims 8 to 14~~claim 8, wherein the shell is cylindrical.
16. (Currently Amended) An apparatus as claimed in ~~any one of claims 8 to 14~~claim 8, wherein the shell has a circular transverse cross-section.
17. (Currently Amended) An apparatus as claimed in ~~any one of claims 8 to 14~~claim 8, wherein the shell has an oval transverse cross-section.
18. (Currently Amended) An apparatus as claimed in ~~any one of claims 8 to 14~~claim 8, wherein the shell has a rectangular transverse cross-section.
19. (Currently Amended) An apparatus as claimed in ~~any one of claims 8 to 18~~claim 8, wherein the shell has a plurality of electrically isolated portions and wherein the apparatus includes means for applying respective voltages to the separate portions.
20. (Currently Amended) An apparatus as claimed in ~~any one of claims 1 to 19~~claim 1, wherein at least a part of the fluidising chamber is electrically conductive and wherein the apparatus includes means for applying a voltage to the conductive part of the fluidising chamber.
21. (Currently Amended) An apparatus as claimed in ~~any one of claims 1 to 19~~claim 1, wherein the walls of the fluidising chamber are electrically non-conductive.

22. (Currently Amended) An apparatus as claimed in ~~any one of claims 1 to 20~~claim 1, wherein, in operation, the potential gradient between the electrode or electrodes and the substrate is of the order of between 0.1 kV/cm and 5 kV/cm, both limits included.
23. (Original) An apparatus as claimed in claim 21, wherein, in operation, the potential gradient is of the order of between 0.1 kV/cm and 0.5 kV/cm, both limits included.
24. (Original) An apparatus as claimed in claim 22, wherein, in operation, the potential gradient is of the order of between 0.2 kV/cm and 1 kV/cm, both limits included.
25. (Original) An apparatus substantially as herein described with reference to and as shown in any one of Figs. 1 to 4, or Fig. 5 or Figs. 5 and 6 or Figs. 5 and 7, or Fig. 8 or Figs. 8 and 9 or Figs. 8 and 10 or Figs. 8 and 11, or Fig. 12 or Fig. 13 or Figs. 12 and 14 or Figs. 13 and 14 of the accompanying drawings.
26. (Original) A process for forming a coating on a substrate, including the steps of:
- establishing a fluidised bed of a powder coating composition, thereby effecting tribostatic charging of the powder coating composition,
 - immersing the substrate wholly or partly in the fluidised bed, whereby tribostatically charged particles of the powder coating composition adhere to the substrate, the substrate being either electrically isolated or earthed,
 - providing an electrically conductive electrode in the fluidised bed,
 - applying a voltage to the electrically conductive electrode,
the electrode being positioned, in relation to the substrate, where the extent to which charged particles adhere to regions of the substrate is influenced by the electrode,
 - withdrawing the substrate from the fluidised-bed and
forming the adherent particles into a continuous coating over at least part of the substrate,

the process being conducted without ionisation or corona effects in the fluidised bed.

27. (Original) A process as claimed in claim 26, including the insertion of a second electrode on the opposite side of the substrate relative to the first-identified electrode, the second electrode being positioned to influence the extent to which charged particles adhere to a region of the substrate, and applying, to the second electrode, a voltage that is of polarity opposite to the first-identified voltage.
28. (Original) A process as claimed in claim 26, including the insertion of at least one further electrode adjacent to the first-identified electrode, the further electrode or electrodes being positioned to influence the extent to which charged particles adhere to a respective region of the substrate or respective regions of the substrate, and applying, to the further electrode or electrodes, a voltage of the same polarity as the first-identified voltage.
29. (Currently Amended) A process as claimed in ~~any one of claims 26 to 28~~claim 26 wherein the substrate is either electrically non-conductive or poorly conductive.
30. (Currently Amended) A process as claimed in ~~any one of claims 26 to 29~~claim 26, wherein the substrate comprises a medium density fibreboard (MDF).
31. (Currently Amended) A process as claimed in ~~any one of claims 26 to 30~~claim 26, wherein the substrate comprises wood.
32. (Currently Amended) A process as claimed in ~~any one of claims 26 to 30~~claim 26, wherein the substrate comprises a wood product.
33. (Currently Amended) A process as claimed in ~~any one of claims 26 to 29~~claim 26, wherein the substrate comprises a plastics material.
34. (Currently Amended) A process as claimed in ~~any one of claims 26 to 29 or claim 33~~claim 26, wherein the substrate comprises a plastics material including an electrically conductive additive.

35. (Currently Amended) A process as claimed in ~~any one of claims 26 to 29, 33 or 34~~claim 26, wherein the plastics material comprises polyamide.
36. (Currently Amended) A process as claimed in ~~any one of claims 26 to 29 or claim 33~~claim 26, wherein the substrate comprises a highly insulating plastics material.
37. (Original) A process as claimed in claim 36, wherein the plastics material comprises polycarbonate.
38. (Currently Amended) A process as claimed in ~~any one of claims 26 to 37~~claim 26, wherein the surface resistance of the substrate is of the order of at least 10^3 ohms/square.
39. (Currently Amended) A process as claimed in ~~any one of claims 26 to 38~~claim 26, wherein the surface resistance of the substrate is of the order of from 10^3 to 10^5 ohms/square.
40. (Currently Amended) A process as claimed in ~~any one of claims 26 to 38~~claim 26, wherein the surface resistance of the substrate is of the order of at least 10^5 ohms/square.
41. (Currently Amended) A process as claimed in ~~any one of claims 26 to 38 or claim 40~~claim 26, wherein the surface resistance of the substrate is of the order of from 10^5 to 10^{11} ohms/square.
42. (Currently Amended) A process as claimed in ~~any one of claims 26 to 38~~claim 26, wherein the surface resistance of the substrate is of the order of at least 10^{11} ohms/square.
43. (Currently Amended) A process as claimed in ~~any one of claims 26 to 28~~claim 26, wherein the substrate is an electrically conductive substrate.
44. (Currently Amended) A process as claimed in ~~any one of claims 33 to 37~~claim 33, including the step of heating the plastics material to a temperature below its melting

point and below the transition point of the powder coating composition before immersing the substrate in the fluidised bed.

45. (Currently Amended) A process as claimed in ~~any one of claims 33 to 37 or claim 44~~claim 33, including the step of pre-charging the substrate before immersing it in the fluidised bed.
46. (Original) A process as claimed in claim 45, including the step of equalising the charge on the substrate before immersing the substrate in the fluidised bed.
47. (Original) A process as claimed in claim 46, including the step of heating the substrate to a temperature below its melting point in order to equalise the charge.
48. (Original) A process as claimed in claim 46, including the step of moistening the surface of the substrate in order to equalise the charge.
49. (Currently Amended) A process as claimed in ~~any one of claims 26 to 28 or claim 43~~claim 26, wherein there is no preheating of the substrate prior to immersion in the fluidised bed.
50. (Original) A process for forming a coating on a substrate substantially as herein described with reference to the accompanying drawings.
51. (Currently Amended) A coated substrate obtained by a process as claimed in ~~any one of claims 26 to 50~~claim 26.